

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Amended) A cassette device for supporting substrates, comprising:

a frame;

a plurality of support members protruding from opposing sides of the frame; and

at least two rectangular supporting bars connected to at least two of the plurality of support members,

wherein the supporting bars contact and support a first surface of a substrate along first parallel sides of the substrate at opposing parallel regions of the first surface, wherein the supporting bars are configured to distribute a load across the substrate.
2. (Original) The device according to claim 1, wherein the supporting bars include acetal resin material.
3. (Original) The device according to claim 1, wherein the supporting bars contact the substrate via surface contact.
4. (Previously Amended) A liquid crystal display panel supporting cassette device, comprising:

a frame;

a plurality of support members protruding from opposing sides of the frame; and

at least two supporting bars connected to at least two of the plurality of support members,

wherein the supporting bars contact and support a first surface of a liquid crystal display panel along first parallel sides of the liquid crystal display panel at opposing parallel regions of the first surface,

wherein the liquid crystal display panels include a first substrate having a plurality of thin film transistor arrays and a second substrate having a plurality of color filters such that the first and second substrates are bonded together.

5. (Previously Presented) The device according to claim 4, wherein the liquid crystal display panels further include a liquid crystal layer between the first and second substrates.

6. (Original) The device according to claim 5, wherein the liquid crystal layer is applied to at least one of the first substrate and the second substrate.

7. (Previously Presented) The device according to claim 1, wherein the plurality of support members includes a first set of support members disposed to extend along a first plane within the frame and a second set of support members disposed to extend along a second plane different from the first plane within the frame.

8. (Previously Presented) The device according to claim 7, wherein each of the first and second sets of support members includes a first pair of support members extending from one of the opposing sides of the frame and a second pair of support members extending from another one of the opposing sides of the frame.

9. (Previously Presented) The device according to claim 3, wherein the substrates are transferred onto the supporting bars by a robot arm.

10. (Previously Presented) The device according to claim 8, wherein the supporting bars extend along the first parallel sides of the substrates.

11. (Previously Presented) The device according to claim 10, wherein the supporting bars extend past edge portions of the substrates along the first parallel sides of the substrates.

12. (Previously Presented) The device according to claim 8, wherein a total number of supporting bars is dependent upon a size of the frame.

13. (Previously Presented) The device according to claim 12, wherein the supporting bars prevent deformation of the substrates.

14. (Previously Amended) A cassette device for supporting substrates, comprising:

a frame;

a plurality of support members protruding from opposing sides of the frame, the support members being substantially parallel to each other; and

at least two rectangular supporting bars connected to at least two of the plurality of support members, wherein the at least two supporting bars are configured to distribute a load across a substrate supported thereon.

15. (Previously Presented) The device according to claim 14, wherein the frame has a substantially rectangular shape.

16. (Previously Presented) The device according to claim 15, wherein the support members protrude from opposing parallel sides of the frame.

17. (Previously Presented) The device according to claim 14, wherein the supporting bars are disposed at an end portion of the support members.

18. (Previously Amended) A cassette device for supporting substrates; comprising:
a frame having substantially rectangular shape;

a plurality of support members protruding from opposing sides of the frame; and
at least two rectangular supporting bars connected to at least two of the plurality of support members, wherein the at least two supporting bars are configured to distribute a load across a substrate supported thereon.

19. (Previously Presented) The device according to claim 18, wherein the support members protrude from substantially parallel sides of the frame.

20. (Previously Presented) The device according to claim 4, wherein the supporting bars are rectangular in shape.

21. (New) A cassette device for supporting substrates, comprising:
a frame;
a plurality of support members protruding from opposing sides of the frame; and
at least two supporting bars connected to at least two of the plurality of support members,
the at least two supporting bars each having an upper surface, the upper surfaces each having a length and width,
wherein each of the at least two supporting bars are configured to support a lower surface of a substrate by the length and width of the upper surfaces of the at least two supporting bars.

22. (New) The device according to claim 21, wherein the at least two supporting bars include flat upper surfaces.

23. (New) The device according to claim 21, wherein the plurality of support members includes a first set of support members disposed to extend along a first plane within the frame and a second set of support members disposed to extend along a second plane different from the first plane within the frame.

24. (New) The device according to claim 23, wherein each of the first and second sets of support members includes a first and second pair of support members extending from one of the opposing sides of the frame and a second and third pair of support members extending from another one of the opposing sides of the frame.

25. (New) The device according to claim 24, wherein a first supporting bar is connected to each first pair of support members, a second supporting bar is connect to each second pair of support members, a third supporting bar is connected to each third pair of support members and a fourth supporting bar is connected to each fourth pair of support members.